

SEA & LAND ELECTRONIC CORP. WWW.SEALAND-PPTC.COM

ALPHA-TOP TECHNOLOGY CORP.

APPROVAL SHEET

MODEL NO.:	SMD200L-24V
CUSTOMER:	
CUSTOMER'S APPR	OVAL:
AUTHORIZED SIGN/	ATURE/STAMP:

DATE

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		Chung Cheng YC Lin 15-Sep-21	Submitted by: Approved by: DATE:
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SEA & LAND ELECTRONIC CORP.



Features Surface Mount Devices Lead free device Size 7.5'5.5 mm 0.29'0.20 inch Surface Mount packaging for automated assembly

Applications Almost anywhere there is a low voltage power supply, up to 60V and a load to be protected, including: Computer mother board, Modem. Telecommunication equipments.

Alpha-Top (Sea & Land Alliance)

SMD200L-24V

Performance Specification											
Model	V _{max}	I _{max}	I _{hold}	I _{trip}	Pd	Maximum Time To Trip		Resistance		Agency Approval	
Woder			@25°C	@25°C	Тур.	Current	Time	Ri _{min}	R1 _{max}	UL	τυν
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)		
SMD200L-24V	24	100	2.00	4.00	1.5	8.0	4.5	0.020	0.120		
Ihold = Hold Current.	Maximum cur	rent device w	ill not trip in 2	5°C still air.							
Itrip = Trip Current. M	linimum curre	ent at which th	e device will a	always trip in	25°C still air.						
Vmax = Maximum ope	rating voltage	e device can w	vithstand witho	out damage a	at rated curre	nt (Imax).					
Imax = Maximum fau	t current devi	ice can withst	and without da	amage at rate	ed voltage (V	max).					
Pd = Power dissipat	ion when dev	ice is in the tr	ipped state in	25°C still air	environment	at rated voltag	je.				
Rimin/max = Minimum/Maximum device resistance prior to tripping at 25°C.											
R1max = Maximum de	evice resistan	ce is measure	ed one hour p	ost reflow.							
CAUTION : Operation b	beyond the sp	ecified rating	s may result ir	n damage and	d possible ar	cing and flame).				

Environmental Specifications

Test	Conditions	Resistance change					
Passive aging	+85°C, 1000 hrs.	±5% typical					
Humidity aging	+85°C, 85% R.H. , 168 hours	±5% typical					
Thermal shock	+85°C to -40°C, 20 times	±33% typical					
Resistance to solvent	MIL-STD-202, Method 215	No change					
Vibration	MIL-STD-202, Method 201	No change					
Ambient operating conditions : - 40 °C to +85 °C							
Maximum surface temperature of the device in the tripped stat	e is 125 °C						

Agency Approvals :

Regulation/Standard:



2015/863/EU

EN14582

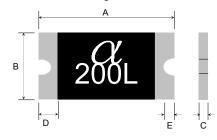
Ihold Versus Temperate	ure								
Model		Ν	laximum amb	pient operating	g temperature	(T _{mao}) vs. ho	ld current (I _{hol}	d)	
WOUEI	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
SMD200L-24V	3.02	2.68	2.34	2.00	1.66	1.50	1.32	1.16	0.90

SMD200L-24V

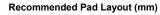
Construction And Dimension (Unit:mm)

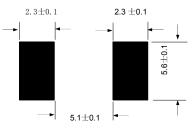
Model		4		3	(0	D	E
woder	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
SMD200L-24V	6.73	7.98	4.80	5.44	0.60	1.30	0.30	0.30

Dimensions & Marking



 α = Trademark 200 = Hold current





Termination Pad Characteristics Terminal pad materials :

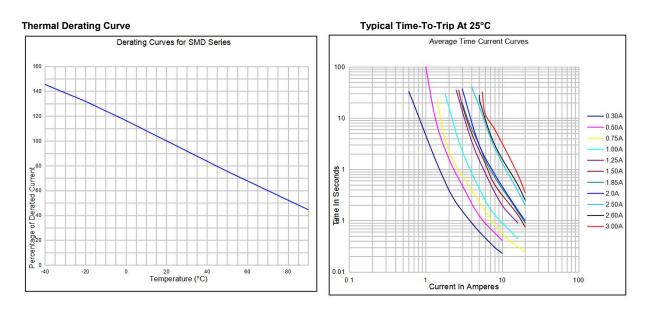
Terminal pad solderability :

Tin-plated Nickel-Copper

Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

Rework

Use standard industry practices, the removal device must be replaced with a fresh one.



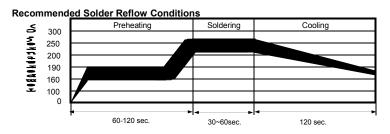
ᡗ warning:

Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.

PPTC are intended for protection against occasional over current or over temperature fault conditions and hould not be used when repeated fault conditions or prolonged trip events are anticipated. Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components. Use PPTC with a large inductance in circuit will generate a circuit voltage (L di/dt) above the rated voltage of the PPTC. Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.

Contaminator of the PPTC material with certain silicon based oils or some aggressive solvents can adversely impact the performance of the devices. PPTC SMD can be cleaned by standard methods. Requests that customers comply with our recommended solder pad layouts and recommended reflow profile. Improper board layouts or reflow profile could negatively impact solderability performance of our devices.

SMD200L-24V

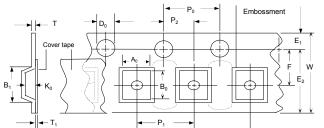


- Recommended reflow methods : IR, vapor phase oven, hot air oven. Devices are not designed to be wave soldered to the bottom side of the board.
- Recommended maximum paste thickness is 0.25 mm (0.010 inch).
- Devices can be cleaned using standard method and solvents. Note : If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

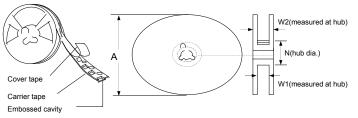
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-2
W	16.0 ± 0.3
P ₀	4.0 ± 0.10
P ₁	8.0 ± 0.10
P ₂	2.0 ± 0.05
P ₀ P ₁ P ₂ A ₀	5.70 ± 0.10
B ₀	8.00 ± 0.10
B ₁ max.	12.1
D ₀	1.5 + 0.1, -0
F	7.5 ± 0.05
D ₀ F E ₁	1.75 ± 0.10
E ₂ min.	14.25
Tmax.	0.6
T₁max.	0.1
K ₀	0.80 ± 0.1
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	178
N min.	60
W ₁	16.4 + 2.0, -0.0
W ₂ max.	22.4

EIA Tape Component Dimensions



EIA Reel Dimensions



- Storage And Handling Storage conditions : 40°C max, 70% R.H.
- Devices may not meet specified performance
- if storage conditions are exceeded.

	Packaging			
200L-24V	Tape & Reel Quantity			
Hold				
Current	1.500 pcs/reel			
2.00A				
	Hold Current			

Tape & reel packaging per EIA481-1

Labeling Information

Sea & Land Electronic Corp.	
HF Pb RoHS	
Model:	
Part no.:	
Spec.:	
Lot no.:	
Q'ty:	
倉儲: 密封! 溫度: 18~33℃/濕度: 30~60% A	

单击下面可查看定价,库存,交付和生命周期等信息

>>SEA-LAND(台湾陆海)